

Badotherm gas filled model BDTG18 series thermometer is available as 100/160 mm. These gasfilled thermometers are suitable for corrosive media and environments in chemical process, petroleum and food industries and meet the highest standards of measurement technique. The standard connection on these thermometers is an adjustable fitting in order to give more flexibility to stem length immersions.

## stainless steel gasfilled thermometer

### mounting variations

- type A bottom connection, direct mounting
- type C surface mounting, bottom connection
- type D back connection, direct mounting
- type E panel mounting, back connection
- type F panel mounting, bottom connection
- type BDTGE every angle connection, direct mounting

### technical specification model BDTG18

diameter	dial	window	ranges
100/160 mm	aluminium	glass	from -80/650 °C
casing	stem	element	connection
AISI304 bayonet	AISI316	elastic spring	1/2" bsp adjustable
bezel	stem dia	pointer	accuracy
AISI304 bayonet	12 mm	adjustable micro	1.0% FSD



**BDTG18/A**



**BDTG18/D**

temperature instrumentation

### options and special executions at extra costs

casing	AISI316
bezel	AISI316
window	safety glass
dials	customized -i.e., non standard ranges or logos
certificates	calibration-; conformity-; material
manuals	installation and maintenance
connection	NPT, MM, BSPT, acc JIS in various sizes
connection type	without connection
connection position	top or side
drag-pointer system	for dia 100/160 mm (plastic window only, max 160 °C)
red pointer	on dial
filling	glycerine, silicone, fluorolube up to 160 °C
stem diameters	1/4" / 3/8" / 1/2" / 6 mm / 8 mm / 10 mm
separate wells	see index 2.3.

## BDTG18 - technical data sheet

### operating details

#### working range

limitations	
Permanent	measuring range per DIN 13 190
Short time ( $\leq 1$ h)	1,2 x measuring range up to 500 °C
	1,1 x measuring range beyond 500 °C

#### temperature limitations

	ambient	process
without filling	-40 °C to 60 °C	-80 °C to 650 °C
glycerine filling	-25 °C to 60 °C	15 °C to 80 °C
silicone filling	-40 °C to 60 °C	-45 °C to 250 °C

#### pressure rating of stem

25 bar maximum (without termowell)

### design information

#### ingress protection

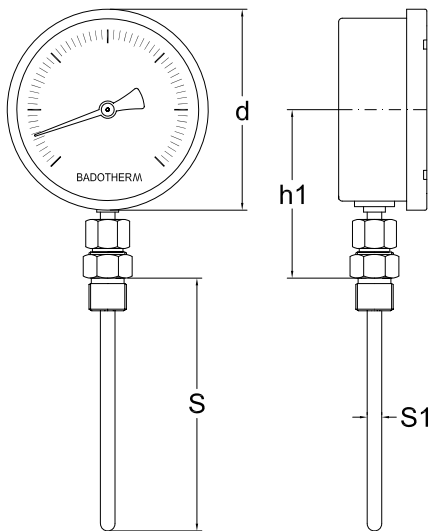
IP 54 per EN 60 529 / IEC 529

IP 65 per EN 60 529 / IEC 529 (liquid filling only)

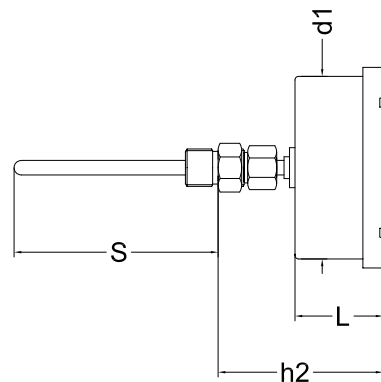
#### design

DIN 13 190

### drawings



type A



type D

### dimensions

ns	d	d1	L	h1	h2	S	S1
100	110	100	49	100	94	to specify	12
160	160	149	50	125	95	to specify	12

Note : dimensions are in mm